

APPLICANT(S): SELLARS, Robert
SERIAL NO.: 10/525,233
FILED: October 11, 2005
Page 4

AMENDMENTS TO THE CLAIMS

Please amend claims 1, 7-11, 13 and 15.

Please cancel claims 26-27.

This listing of claims below will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A device for providing multi-directional movement comprising:

a housing having at least one main roller located therein, the housing having a first end defining an opening through which a part of the main roller extends, and a tapering second end, wherein the second end and ~~an~~ a generally vertical inner wall portion of the housing define a cavity in which the main roller is located, the second end comprising a second-end wall portion which is inclined relative to the generally vertical inner wall portion of the housing;

at least one bearing means comprising an annular member with a plurality of openings in which support rollers are located for contacting a surface part of the or each main roller, the surface part being a surface part of the roller oriented towards the second end of the housing, and wherein at least some of the support rollers are seated in the openings so that parts of their surfaces protrude further towards the first end of the housing than does the annular member in which they are located;

a recessed circular region, provided in the inclined second-end wall portion, for accommodating the support rollers, the recessed circular region being spaced apart inwardly from, and having a substantially smaller diameter than, the generally vertical inner wall portion of the housing;

a centring ~~means~~ mechanism for preventing contact between the main roller and the inner wall portion of the housing and comprising a plurality of centring rollers for contacting a peripheral portion of the or each main roller;

~~a retaining means~~ retainer for retaining the centring ~~means~~ mechanism in position in the housing around the or each main roller; and

~~a braking means~~ brake for providing resistance to rotation of at least one main roller.

APPLICANT(S): SELLARS, Robert
SERIAL NO.: 10/525,233
FILED: October 11, 2005
Page 5

2. (Previously Presented) The device as claimed in claim 1 wherein the or each annular member is located between the or each main roller and the second end of the housing.

3. (Canceled)

4. (Previously Presented) The device as claimed in claim 1 wherein all the support rollers are seated so that parts of their surfaces protrude further towards the first end of the housing than does the annular member in which they are located.

5. (Previously Presented) The device as claimed in claim 1 wherein at least some of the support rollers are seated so that parts of their surfaces protrude further towards the second end of the housing than does the annular member in which they are located.

6. (Previously Presented) The device as claimed in claim 1 wherein the openings each comprise a hole through the annular member which has a diameter which varies in the direction of thickness of the annular member and which has a minimum diameter which is less than the diameter of the support roller located therein.

7. (Currently Amended) The device as claimed in claim 1 wherein the ~~retaining means~~ retainer is screwed into the bottom of the housing.

8. (Currently amended) The device as claimed in claim 7 wherein the centring ~~means~~ mechanism comprises a peripheral race with the plurality of centring rollers located therein to contact the peripheral portion of the or each main roller.

9. (Currently amended) The device as claimed in claim 8 wherein the ~~retaining means~~ retainer comprises a skirting device which is able to be screwed into the bottom of the housing.

10. (Currently Amended) The device as claimed in claim 8 wherein the ~~retaining means~~

APPLICANT(S): SELLARS, Robert
SERIAL NO.: 10/525,233
FILED: October 11, 2005
Page 6

retainer comprises a circlip.

11. (Currently amended) The device as claimed in claim 1 wherein the centring means is housed in a ~~recessed~~ circular recessed region of the housing located approximately at the equatorial region of the one ~~or more~~ main ~~roller~~ rollers.

12. (Original) The device as claimed in claim 11, wherein the main roller is a spherical ball.

13. (Currently Amended) The device as claimed in claim 1 wherein the ~~braking means~~ brake comprises a braking member which is configured to be urged into contact with at least one main roller.

14. (Original) The device as claimed in claim 5 wherein the braking member comprises a brake pad located above the bearing means and configured to contact a top surface of at least one main roller.

15. (Currently Amended) The device as claimed in claim 14 wherein the braking ~~means~~ member is able to be forced by an urging ~~means~~ mechanism through the annular member into contact with the main roller.

16. (Withdrawn) The device as claimed in claim 15 wherein the urging means comprises a screwable member which is controlled by a horizontal screw through a side wall of the housing.

17. (Withdrawn) The device as claimed in claim 1 wherein the housing comprises a tubular portion with a plurality of stepped regions on its inner surface, including an upper stepped region for receipt of the annular member and a lower stepped region for receipt of the centring means.

18. (Withdrawn) The device as claimed in claim 1 comprising a plurality of main rollers each having one associated bearing means.

APPLICANT(S): SELLARS, Robert
SERIAL NO.: 10/525,233
FILED: October 11, 2005
Page 7

19. (Withdrawn) The device as claimed in claim 1 including a central power transfer means with roller equispaced therearound.

20. (Withdrawn) The device as claimed in claim 1 including a peripheral race with bearings which are configured to contact outer surfaces of a plurality of main rollers.

21. (Withdrawn) The device as claimed in claim 20 wherein the central power transfer means comprises a drive shaft.

22. (Original) The device as claimed in claim 1 wherein the main roller is able to move in any direction.

23. (Withdrawn) The device as claimed in claim 1 including a plurality of bearing means.

24. (Withdrawn) The device as claimed in claim 23 including left and right side bearing means.

25. (Withdrawn) The device as claimed in claim 24 including left and right side centring means located on opposite sides of at least one roller.

26. (Canceled)

27. (Canceled) The device as claimed in claim 26 wherein the cavity is generally cylindrical, and wherein the recessed circular region has a diameter approximately half the size of the diameter of the cavity.